Specifications — PVS 204SA Plus

Video — RGB

Gain	Unity (as a system with Extron PVT Series wall plates and transmitters)
Bandwidth	200 MHz (-3 dB) @ 50' (15 m) of cable
Crosstalk	-70 dB @ 5 MHz
Switching speed	1 ms (max.) from front panel, 1-2 s from remote panel
CMRR	-90 dB @ 100 Hz, -70 dB @ 10 MHz

Video input — RGB

Number/signal type	2 VGA-UXGA RGBHV, RGBS (inputs 1 and 2) 2 VGA-UXGA RGBHV, RGBS, or composite video (configurable, inputs 3 and 4)
Connectors	4 pairs female RJ-45 (See the user's manual for pin configurations.)
Nominal level	1 Vp-p for composite video 0.7 Vp-p for RGB (as a system including Extron PVT Series wall plates and transmitters)
Minimum/maximum levels	Analog: 0.3 V to 1.5 Vp-p with no offset (as a system including Extron PVT Series wall plates and transmitters)
Impedance	75 ohms (as a system including Extron PVT Series wall plates and transmitters)
Horizontal frequency	15 kHz to 145 kHz
Vertical frequency	30 Hz to 170 Hz
DC offset (max. allowable)	1.0 V

Video output — RGB

Number/signal type	1 VGA-UXGA RGBHV, RGBS (follows input type)
Connectors	1 female 15-pin HD
Nominal level	0.7 Vp-p for RGB (as a system including Extron PVT Series wall plates and transmitters)
Minimum/maximum levels	0.3 V to 1.5 Vp-p (follows input)
Impedance	75 ohms
Return loss	<-40 dB @ 5 MHz
DC offset	±5 mV, max., with input at 0 offset

Video — composite video

Gain	Unity (as a system with Extron PVT Series wall plates and transmitters)
Bandwidth	100 MHz (-3 dB)
Differential phase error	0.25° at 3.58 MHz and 4.43 MHz
Differential gain error	0.15% at 3.58 MHz and 4.43 MHz
Switching speed	1 ms (max.) from front panel, 1-2 s from remote panel
CMRR	-90 dB @ 100 Hz, -70 dB @ 10 MHz

Video input — composite video

Number/signal type	2 composite video (configurable, inputs 3 and 4)
Connectors	2 female RJ-45 (Read the manual for pin configurations.)
Nominal level	1 Vp-p for composite video (including sync, as a system including Extron PVT Series wall plates and transmitters)
Minimum/maximum levels	Analog: 0.4 V to 2.0 Vp-p with no offset
Impedance	75 ohms
Return loss	<-40 dB @ 5 MHz
DC offset (max. allowable)	1.0 V

Video output — composite video

Number/signal type	1 composite video
Connectors	1 RCA female

Specifications — PVS 204SA Plus, cont'd

Nominal level	1 Vp-p for composite video (including sync, as a system including Extron PVT Series wall plates and transmitters)
Minimum/maximum levels	0.4 V to 2.0 Vp-p (follows input)
Impedance	75 ohms
Return loss	-40 dB @ 5 MHz
DC offset	±20.5 mV with input at 0 offset

Sync

Input type	RGBHV, RGBS (RGB input)
Output type	RGBHV, RGBS (RGB output, follows input)
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM (for composite video inputs and outputs)
Input level	2.0 V to 5.5 Vp-p
Output level	4.5 V to 5.5 Vp-p, unterminated
Input impedance	511 ohms
Output impedance	75 ohms
Max. propagation delay	40 ns (system only, not due to cable delay)
Max. rise/fall time	15 ns
Polarity	Positive or negative (follows input)

Audio input — refer to the PVT Series Transmitters' audio specifications

Number/signal type	4 proprietary signals from Extron PVT Series wall plates and transmitters
Connectors	4 female RJ-45 (2 shared with RGB inputs, 2 shared with configurable RGB/composite video inputs)

NOTE *0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu*

Audio — preamplifier

Input gain adjustment	–18 dB to +24 dB (default = 0 dB), adjustable per input via RS-232
Input level sensitivity	-10 dBV (0.316 Vrms) for maximum output before clipping
Volume control range	0 to -60 dB
Crosstalk	<-85 dB @ 1 kHz (as a system with Extron PVT Series transmitters with 50' cables)
Stereo channel separation	>80 dB @ 1 kHz (as a system with Extron PVT Series transmitters with 50' cables)
Bass adjustment	±10.5 dB @ 50 Hz
Treble adjustment	±10.5 dB @ 15 Hz

Audio input — Aux/Mix

Number/signal type	1 mono, unbalanced or balanced
Connectors	(1) 3.5 mm captive screw connector, 3 pole
Impedance	>15k ohms unbalanced, DC coupled >22k ohms balanced, DC coupled
Nominal level	-20 dBV (100 mVrms)
Maximum level	+16 dBV (6.31V), (balanced) at 1% THD+N

NOTE *Input clips at +16 dBV. The clipping level changes when gain changes.*

Input gain/volume adjustment	-18 dB to +24 dB (default = 0 dB), adjustable independently from all other audio gain and volume controls via front panel or RS-232
Input level sensitivity	-20 dBV (100 mV) for maximum output before clipping when Aux/Mix volume is set to 24)

Audio output — lineout

Number/signal type	1 stereo/mono, balanced/unbalanced, fixed/variable
Connector	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.8 dB channel to channel
Maximum level (600 ohms)	+10 dBu, balanced, at <0.1% THD+N

NOTE *Unbalanced wired outputs produce 6 dB of attenuation. Balanced output has unity gain/attenuation.*

Audio output — power amplifier

Number/signal type	(1) stereo (default) or dual mono, 2 channels total
Connectors	(1) 5.0 mm captive screw connector, 4 pole
Impedance	4/8 ohms (single channel) 4/8 ohms (stereo)
Amplifier type	Class D
Gain/volume adjustment	-10 dB to +10 dB (default = 0 dB), adjustable in 1 dB steps
Frequency response	20 Hz to 20 kHz, -1 dB/+3.5 dB @ 1 watt output, 8 ohm load
THD + Noise	0.2% @ 1 kHz at nominal level (1 watt, 8 ohm load)
S/N	>67 dB, 20 Hz to 20 kHz at maximum output (unweighted), 8 ohms (as a system with Extron PVT Series transmitters with 50' cables)
Continuous power output with a full load at 1 kHz, 1% THD	
At 4 ohms	13 watts (rms) per channel (1 watt tolerance)
At 8 ohms	7 watts (rms) per channel (1 watt tolerance)
Damping factor	>80 (8 ohm load)

Control/remote — switcher

Serial host control ports	2 bidirectional RS-232: 1 rear panel 3.5 mm captive screw connector, 5 pole (shared with IR control); 1 front panel 2.5 mm stereo mini jack
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	Captive screw connector: A = TX, B = RX, C = IR receive, D = GND, E = 12 VDC 2.5 mm mini stereo jack: tip = TX, ring = RX, sleeve = GND
DC volume control port	(1) 3.5 mm captive screw connector, 3 pole
DC volume control pin configurations	1 = +10 VDC, 2 = volume/mute (variable voltage), 3 = GND
Volume control voltage range	0 V (mute) to 10 V (maximum volume)
Paging sensor connector	(1) 3.5 mm captive screw connector, 2 pole
Program control	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™)

General

External power supply	100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 3 A, regulated
Power input requirements	12 VDC, 3 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, unvented
Mounting	
Rack mount	Yes, with optional 1U rack shelf
Furniture mount	Yes, with optional under-desk mounting kit
Pole mount	Yes, with optional pole mounting kit
Enclosure type	Metal

Specifications — PVS 204SA Plus, cont'd

Enclosure dimensions	1.7" H x 8.7" W x 3.0" D (1U high, half rack wide) 4.3 cm H x 22.1 cm W x 7.6 cm D
Product weight	2.5 lbs (1.1 kg), plus power supply (0.6 lbs [0.3 kg])
Shipping weight	5 lbs (2.3 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release, excluding the power supply; meets UL 60065 for safety.
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Warranty	3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

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